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Florida Department of Environmental Protection

Southwest District Office
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Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

City of Largo Meeting Notes

August 24, 2017, 9:10am – 10:30am

In attendance:

Irvin Kety, Environmental Services Director, City of Largo
Todd Tanberg, Assistant Director, City of Largo
Gary Glascock, Wastewater Manager, City of Largo
Vivian Gleaves, Environmental Manager, City of Largo
Chuck Mura, City of Largo
Jerald Woloszynski, City of Largo
Sean Chaparro, Arcadis
Jacquelyn Champion, FDEP Permitting Manager
Michelle Holton, FDEP Environmental Specialist
Michael Lynch, FDEP Environmental Manager

The meeting convened at 9:10am.

The purpose of this meeting was to discuss the current DW permit renewal application and RAI, the Administrative Order, a potential 4th Amendment to the Consent Order OGC File No. 03-0666, and to discuss the Peracetic Acid Disinfection Method Operating Protocol.

The City of Largo's wastewater treatment facility permit renewal is in-house. An RAI was issued on June 1, 2017 that addressed exceedances through outfall D-001 for Fecal Coliform (% less than detection), Total Nitrogen, Dissolved Oxygen (DO), and Dichlorobromomethane. These exceedances were discussed. The last exceedance for Fecal Coliforms was in March 2017. They have increased the disinfection levels which has improved the Fecal results but has caused an increase in Dichlorobromomethane since March 2017. The annual average for Total Nitrogen has been in compliance since February 2017. The DO levels have exceeded the limit of 5.0 mg/L fifteen times since January 2015. The City is working on construction to add Peracetic Acid as a disinfection method that should decrease the Dichlorobromomethane and increase the DO. Other factors that could be affecting the DO level is the change in flow pattern in the chlorine contact chamber and the new effluent pump station. They have purchased two new jet aerators and 2 aspirators that should increase the DO levels in the effluent. The Peracetic Acid disinfection should be put into place within the next few weeks. The City has a new system design that will be put into place to dispense chlorine, this is expected to be put

into place by October 2017. The City mentioned that if the new system does not give the appropriate results they will adjust the process or revert back to the current process.

The need to address the DO and Dichlorobromomethane exceedances in an amendment to the Consent Order was discussed and the City agreed. The proposed interim limit for DO was proposed as 3.5 mg/L. Jacki requested a three-month average for the Dichlorobromomethane levels to calculate an adjustment to the interim levels in the CO.

The new Peracetic Acid disinfection system should be put into place in approximately three weeks. It was discussed that a maximum PAA residual will be left out of the permit unless a toxicity becomes an issue. Research has shown that the PAA residual should not be a toxicity issue. The Department will go ahead with the PAA Operating Protocol approval.

Take away from the meeting:

- The proposed interim limit, in the CO Amendment, for DO will be 3.5 mg/L.
- The City will submit the most recent three-month average for Bromodichloromethane to be used to determine the interim limit in the CO amendment.
- The maximum residual limit for PAA will not be included in the permit renewal unless a toxicity issue arises due to the PAA residual.
- The compliance time extension date for the CO Amendment will be January 31, 2019.
- The City will submit, within four weeks, wording pertaining to changes in the stipulated penalty portion of the CO, for Department review.

The meeting concluded at 10:15am.

City of Largo FDEP Consent Order Project Update
August 24, 2017

FDEP Consent Order Projects

Wet Weather Project – Project is approximately 14 miles of new forcemain and seven new lift stations intended to reduce sanitary sewer overflows (SSO's) associated with 10 year storm events.

- \$39.0M contract
- Construction Start – March 22, 2015.
- Construction Completion – December, 2017.

Effluent Pumping and Disinfection System Project — Project consists of modifications and conversion of the existing chlorine gas disinfection system to a combination liquid chlorine and peracetic acid disinfection system with upgrades to the effluent pumping system.

- \$14.8M contract
- Construction Start – June 29, 2015
- Construction Completion – October, 2017.

Influent and Headworks Project - Project consists of a new influent pump station, equalization tank, headworks facility, and odor control system with modifications to existing digester tanks and construction of a new gravity sludge thickener. It also provides a 5 million gallon holding tank to receive wet weather flow.

- \$25.3M contract
- Construction Start – January 11, 2016
- Construction Completion - December, 2017.

Inflow and Infiltration Reduction Efforts

To further reduce SSO's, the City of Largo has a number of Inflow and Infiltration (I&I) Engineering Evaluations under contract. These evaluations test City owned manholes, gravity sewer lines as well as laterals (public and private).

- **Lift Station 15 Sanitary Sewer Basin I&I Abatement Evaluations**

- \$199,540 Task Order
- Evaluation Start – December 21, 2016
- Evaluation Completion - November, 2017

- **Hurricane Hermine Sanitary Sewer Collection System Engineering Evaluation**

- \$1,147,029 Task Order
- Evaluation Start – August 16, 2017
- Evaluation Completion - April, 2018

The following summarizes the sanitary assets under contract for I&I evaluations:

- 4,925 laterals
- 239,500 liner feet of gravity lines
- 986 manholes